Scenario: #1 - Filter Strip, Native species: Forgone Income

# **Scenario Description:**

A strip or area of native herbaceous vegetation situated between cropland and sensitive areas. Practice includes seedbed prep and planting of native species. The area of the filter strip is taken out of production.

#### **Before Situation:**

Annual cropland allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat and neighboring non-ag properties. Water Quality resource concerns are associated with this practice.

# **After Situation:**

The planned filter strip will be established and mainatined per the practice plan that will meet the criteria for the planned purpose(s). The vegetation will consist of native species. The filter strip will have adequate width to filter the planned pollutants. The practice includes seedbed preparation, seeding, and operation and maintenance to maintain the vegetation and the function of the filter strip. Species selected shall be able to withstand partial burial by sediment and tolerant of herbicides used on contribution area while protecting environmentally-sensitive areas. The area of the filter strip is taken out of production.

Scenario Feature Measure: number of acres

Scenario Unit: Acre
Scenario Typical Size: 1

Scenario Cost: \$499.68 Scenario Cost/Unit: \$499.68

Cost Details (by category	t Details (by category):						
Component Name	ID	Component Description	Unit	(\$/unit)	Quantity	Cost	
Equipment/Installation							
Chemical, ground application	948	Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$5.75	1	\$5.75	
Fertilizer, ground application, dry bulk	950	Dry bulk fertilizer application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.36	1	\$6.36	
Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$20.01	1	\$20.01	
Foregone Income							
FI, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$313.51	1	\$313.51	
Labor							
General Labor	231	Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$24.74	1	\$24.74	
Materials	•						
Potassium, K2O	74	K2O supplied by Muriate Of Potash. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.28	100	\$28.00	
Phosphorus, P2O5	73	Price per pound of P2O5 supplied by Superphosphate. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.39	50	\$19.50	
Herbicide, Glyphosate	334	A broad-spectrum, non-selective systemic herbicide. Refer to WIN-PST for product names and active ingredients. Includes materials and shipping only.	Acre	\$15.83	1	\$15.83	
One Species, Warm Season, Native Perennial Grass	2322	Native, warm season perennial grass. Includes material and shipping only.	Acre	\$65.98	1	\$65.98	

Scenario: #2 - Filter Strip, Introduced species: Forgone Income

# **Scenario Description:**

A strip or area of Introduced herbaceous vegetation situated between cropland and sensitive areas. Practice includes seedbed prep and planting of introduced species. The area of the filter strip is taken out of production.

### **Before Situation:**

Annual cropland allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat and neighboring non-ag properties. Water Quality resource concerns are associated with this practice.

# **After Situation:**

The planned filter strip will be established and mainatined per the practice plan that will meet the criteria for the planned purpose(s). The vegetation will consist of introduced species. The filter strip will have adequate width to filter the planned pollutants. The practice includes seedbed preparation, seeding, and operation and maintenance to maintain the vegetation and the function of the filter strip. Species selected shall be able to withstand partial burial by sediment and tolerant of herbicides used on contribution area while protecting environmentally-sensitive areas. The area of the filter strip is taken out of production.

**Scenario Feature Measure:** Number of acres

Scenario Unit: Acre
Scenario Typical Size: 1

Scenario Cost: \$513.38 Scenario Cost/Unit: \$513.38

Cost Details (by category)	:			Price		
Component Name	ID	Component Description	Unit	(\$/unit)	Quantity	Cost
Equipment/Installation						
Seeding Operation, No Till/Grass Drill		No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$20.01	1	\$20.01
Fertilizer, ground application, dry bulk		Dry bulk fertilizer application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.36	1	\$6.36
Chemical, ground application		Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$5.75	1	\$5.75
Foregone Income						
FI, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$313.51	1	\$313.51
Labor						
General Labor		Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$24.74	1	\$24.74
Materials	•					
Four Species Mix, Cool Season, Introduced Perennial (2 grasses, 2 legumes)		Cool season grass and legume mix. Includes material and shipping only.	Acre	\$46.18	1	\$46.18
Herbicide, Glyphosate		A broad-spectrum, non-selective systemic herbicide. Refer to WIN-PST for product names and active ingredients. Includes materials and shipping only.	Acre	\$15.83	1	\$15.83
Potassium, K2O		K2O supplied by Muriate Of Potash. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.28	100	\$28.00
Phosphorus, P2O5		Price per pound of P2O5 supplied by Superphosphate. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.39	50	\$19.50
Nitrogen (N), Urea		Price per pound of N supplied by Urea. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.67	50	\$33.50

Scenario: #3 - Filter Strip, Native Species w/ Land Shaping: Forgone Income

# **Scenario Description:**

A strip or area of Native herbaceous vegetation situated between cropland and sensitive areas. Practice includes seedbed prep and planting of native species. The area of the filter strip is taken out of production.

#### **Before Situation:**

Annual cropland allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat and neighboring non-ag properties. Water Quality resource concerns are associated with this practice.

# **After Situation:**

The planned filter strip will be established and maintained per the practice plan that will meet the criteria for the planned purpose(s). The vegetation will consist of native species. The filter strip will have adequate width to filter the planned pollutants. The practice includes seedbed preparation (including any shaping needed to ensure even entry of water into the strip), seeding, and operation and maintenance to maintain the vegetation and the function of the filter strip. Species selected shall be able to withstand partial burial by sediment and tolerant of herbicides used on contribution area while protecting environmentally-sensitive areas. The area of the filter strip is taken out of production.

Scenario Feature Measure: Number of acres

Scenario Unit: Acre

Scenario Typical Size: 1

Scenario Cost/Unit: \$961.81 Scenario Cost: \$961.81

Cost Details (by category	-			Price		
Component Name	ID	Component Description	Unit	(\$/unit)	Quantity	Cost
Equipment/Installation	020	Treat mounted Dezer with horsenower range of 60 to 00	Hour	\$66.54	2	\$133.08
Dozer, 80 HP	929	Track mounted Dozer with horsepower range of 60 to 90. Equipment and power unit costs. Labor not included.	Hour	\$66.54	2	\$133.08
Chemical, ground application	948	Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$5.75	1	\$5.75
Fertilizer, ground application, dry bulk	950	Dry bulk fertilizer application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.36	1	\$6.36
Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$20.01	1	\$20.01
Foregone Income						
FI, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$313.51	1	\$313.51
Labor						
General Labor		Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$24.74	1	\$24.74
Equipment Operators, Heavy	233	Includes: Cranes, Hydraulic Excavators >=50 HP, Dozers, Paving Machines, Rock Trenchers, Trenchers >=12", Dump Trucks, Ag Equipment >=150 HP, Scrapers, Water Wagons.	Hour	\$34.14	2	\$68.28
Materials						
Herbicide, Glyphosate	334	A broad-spectrum, non-selective systemic herbicide. Refer to WIN-PST for product names and active ingredients. Includes materials and shipping only.	Acre	\$15.83	1	\$15.83
One Species, Warm Season, Native Perennial Grass	2322	Native, warm season perennial grass. Includes material and shipping only.	Acre	\$65.98	1	\$65.98
Potassium, K2O	74	K2O supplied by Muriate Of Potash. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.28	50	\$14.00
Phosphorus, P2O5	73	Price per pound of P2O5 supplied by Superphosphate. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.39	100	\$39.00

# Mobilization

# Mobilization

Mobilization, medium	1139 Equipment with 70-150 HP or typical weights between	Each	\$255.27	1	\$255.27
equipment	14,000 and 30,000 pounds.				

Scenario: #4 - Filter Strip, Introduced Species w/ Land Shaping: Forgone Income

# **Scenario Description:**

A strip or area of herbaceous vegetation, introduced species, situated between cropland and sensitive areas. Practice includes seedbed prep, land shaping and planting of approved species. The area of the filter strip is taken out of production.

#### **Before Situation:**

Annual cropland allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat and neighboring non-ag properties. Water Quality resource concerns are associated with this practice.

### **After Situation:**

The planned filter strip will be established and mainatined per the practice plan that will meet the criteria for the planned purpose(s). The vegetation will consist of introduced species. The filter strip will have adequate width to filter the planned pollutants. The practice includes seedbed preparation (including any shaping needed to ensure even entry of water into the strip), seeding, and operation and maintenance to maintain the vegetation and the function of the filter strip. Species selected shall be able to withstand partial burial by sediment and tolerant of herbicides used on contribution area while protecting environmentally-sensitive areas. The area of the filter strip is taken out of production.

Scenario Feature Measure: Number of acres

Scenario Unit: Acre
Scenario Typical Size: 1

Scenario Cost: \$970.01 Scenario Cost/Unit: \$970.01

Cost Details (by category): **Price Component Name Component Description** Unit **Quantity Cost** (\$/unit) Equipment/Installation Hour 2 Dozer, 80 HP 929 Track mounted Dozer with horsepower range of 60 to 90. \$66.54 \$133.08 Equipment and power unit costs. Labor not included. 948 Chemical application performed by ground equipment. 1 \$5.75 Chemical, ground application Acre \$5.75 Includes equipment, power unit and labor costs. Fertilizer, ground application, 950 Dry bulk fertilizer application performed by ground Acre \$6.36 \$6.36 dry bulk equipment. Includes equipment, power unit and labor Seeding Operation, No 960 No Till drill or grass drill for seeding. Includes equipment, \$20.01 1 \$20.01 Acre power unit and labor costs. Till/Grass Drill Foregone Income FI, Corn Dryland 1959 Dryland Corn is Primary Crop \$313.51 1 \$313.51 Acre Labor Hour \$24.74 \$24.74 General Labor 231 Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc. Equipment Operators, Heavy 233 Includes: Cranes, Hydraulic Excavators >=50 HP, Dozers, Hour \$34.14 2 \$68.28 Paving Machines, Rock Trenchers, Trenchers >=12", Dump Trucks, Ag Equipment >=150 HP, Scrapers, Water Wagons. Materials \$46.18 Four Species Mix, Cool Season, 2317 Cool season grass and legume mix. Includes material and Acre \$46.18 Introduced Perennial (2 shipping only. grasses, 2 legumes) 334 A broad-spectrum, non-selective systemic herbicide. Refer 1 \$15.83 Herbicide, Glyphosate Acre \$15.83 to WIN-PST for product names and active ingredients. Includes materials and shipping only. Phosphorus, P2O5 73 Price per pound of P2O5 supplied by Superphosphate. Pound \$0.39 50 \$19.50 Price is not per pound of total product applied, no conversion is needed. \$33.50 71 Price per pound of N supplied by Urea. Price is not per Pound \$0.67 50 Nitrogen (N), Urea pound of total product applied, no conversion is needed.

# Materials

Potassium, K2O	74 K2O supplied by Muriate Of Potash. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.28	100	\$28.00
Mobilization					
Mobilization, medium equipment	1139 Equipment with 70-150 HP or typical weights between 14,000 and 30,000 pounds.	Each	\$255.27	1	\$255.27

Scenario: #5 - Filter Strip, Native species

### **Scenario Description:**

A strip or area of native herbaceous vegetation situated between cropland, grazing land or disturbed land and sensitive areas. Practice includes seedbed prep and planting of native species.

### **Before Situation:**

Annual cropland, grazing land, or disturbed land (including forestland) allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat and neighboring non-ag properties. Water Quality resource concerns are associated with this practice.

### **After Situation:**

The planned filter strip will be established and mainatined per the practice plan that will meet the criteria for the planned purpose(s). The vegetation will consist of native species. The filter strip will have adequate width to filter the planned pollutants. The practice includes seedbed preparation, seeding, and operation and maintenance to maintain the vegetation and the function of the filter strip. Species selected shall be able to withstand partial burial by sediment and tolerant of herbicides used on contribution area while protecting environmentally-sensitive areas.

Scenario Feature Measure: number of acres

Scenario Unit: Acre
Scenario Typical Size: 1

Scenario Cost: \$186.17 Scenario Cost/Unit: \$186.17

Cost Details (by category): Price **Component Name Component Description** Unit **Quantity Cost** (\$/unit) Equipment/Installation Chemical, ground application 948 Chemical application performed by ground equipment. Acre \$5.75 1 \$5.75 Includes equipment, power unit and labor costs. 950 Dry bulk fertilizer application performed by ground 1 \$6.36 Fertilizer, ground application, Acre \$6.36 dry bulk equipment. Includes equipment, power unit and labor Seeding Operation, No 960 No Till drill or grass drill for seeding. Includes equipment, Acre \$20.01 \$20.01 Till/Grass Drill power unit and labor costs. Labor General Labor 231 Labor performed using basic tools such as power tool, \$24.74 \$24.74 Hour 1 shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc. Materials 73 Price per pound of P2O5 supplied by Superphosphate. \$0.39 50 \$19.50 Phosphorus, P205 Pound Price is not per pound of total product applied, no conversion is needed. Potassium, K2O 74 K2O supplied by Muriate Of Potash. Price is not per pound Pound \$0.28 100 \$28.00 of total product applied, no conversion is needed. Herbicide, Glyphosate 334 A broad-spectrum, non-selective systemic herbicide. Refer Acre \$15.83 1 \$15.83 to WIN-PST for product names and active ingredients. Includes materials and shipping only. 1 \$65.98 One Species, Warm Season, 2322 Native, warm season perennial grass. Includes material \$65.98 Acre Native Perennial Grass and shipping only.

Scenario: #6 - Filter Strip, Introduced species

# **Scenario Description:**

A strip or area of Introduced herbaceous vegetation situated between cropland, grazing land or disturbed land and sensitive areas. Practice includes seedbed prep and planting of introduced species.

#### **Before Situation:**

Annual cropland, grazing land, or disturbed land (including forestland) allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat and neighboring non-ag properties. Water Quality resource concerns are associated with this practice.

# **After Situation:**

The planned filter strip will be established and mainatined per the practice plan that will meet the criteria for the planned purpose(s). The vegetation will consist of introduced species. The filter strip will have adequate width to filter the planned pollutants. The practice includes seedbed preparation, seeding, and operation and maintenance to maintain the vegetation and the function of the filter strip. Species selected shall be able to withstand partial burial by sediment and tolerant of herbicides used on contribution area while protecting environmentally-sensitive areas.

Scenario Feature Measure: Number of acres

Scenario Unit: Acre
Scenario Typical Size: 1

Scenario Cost: \$199.87 Scenario Cost/Unit: \$199.87

Cost Details (by category)	Details (by category):					
Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Equipment/Installation						
Seeding Operation, No Till/Grass Drill		No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$20.01	1	\$20.01
Chemical, ground application		Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$5.75	1	\$5.75
Fertilizer, ground application, dry bulk		Dry bulk fertilizer application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.36	1	\$6.36
Labor						
General Labor		Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$24.74	1	\$24.74
Materials						1
Herbicide, Glyphosate		A broad-spectrum, non-selective systemic herbicide. Refer to WIN-PST for product names and active ingredients. Includes materials and shipping only.	Acre	\$15.83	1	\$15.83
Nitrogen (N), Urea		Price per pound of N supplied by Urea. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.67	50	\$33.50
Phosphorus, P2O5		Price per pound of P2O5 supplied by Superphosphate. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.39	50	\$19.50
Four Species Mix, Cool Season, Introduced Perennial (2 grasses, 2 legumes)		Cool season grass and legume mix. Includes material and shipping only.	Acre	\$46.18	1	\$46.18
Potassium, K2O		K2O supplied by Muriate Of Potash. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.28	100	\$28.00

Scenario: #7 - Native Species Filter Strip w/ Land Shaping

# **Scenario Description:**

A strip or area of Native herbaceous vegetation situated between cropland, grazing land or disturbed land and sensitive areas. Practice includes seedbed prep and planting of native species.

#### **Before Situation:**

Annual cropland, grazing land, or disturbed land (including forestland) allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat and neighboring non-ag properties. Water Quality resource concerns are associated with this practice.

### **After Situation:**

The planned filter strip will be established and mainatined per the practice plan that will meet the criteria for the planned purpose(s). The vegetation will consist of native species. The filter strip will have adequate width to filter the planned pollutants. The practice includes seedbed preparation (including any shaping needed to ensure even entry of water into the strip), seeding, and operation and maintenance to maintain the vegetation and the function of the filter strip. Species selected shall be able to withstand partial burial by sediment and tolerant of herbicides used on contribution area while protecting environmentally-sensitive areas.

Scenario Feature Measure: Number of acres

Scenario Unit: Acre
Scenario Typical Size: 1

Scenario Cost: \$642.80 Scenario Cost/Unit: \$642.80

Cost Details (by category): Price **Component Name Component Description** Unit **Quantity Cost** (\$/unit) Equipment/Installation Dozer, 80 HP 929 Track mounted Dozer with horsepower range of 60 to 90. Hour \$66.54 2 \$133.08 Equipment and power unit costs. Labor not included. \$5.75 948 Chemical application performed by ground equipment. \$5.75 1 Chemical, ground application Acre Includes equipment, power unit and labor costs. Fertilizer, ground application, 950 Dry bulk fertilizer application performed by ground Acre \$6.36 1 \$6.36 dry bulk equipment. Includes equipment, power unit and labor Seeding Operation, No 960 No Till drill or grass drill for seeding. Includes equipment, Acre \$20.01 1 \$20.01 Till/Grass Drill power unit and labor costs. Labor General Labor 231 Labor performed using basic tools such as power tool, \$24.74 1 \$24.74 Hour shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc. 2 Equipment Operators, Heavy 233 Includes: Cranes, Hydraulic Excavators >=50 HP, Dozers, Hour \$34.14 \$68.28 Paving Machines, Rock Trenchers, Trenchers >=12", Dump Trucks, Ag Equipment >=150 HP, Scrapers, Water Wagons. Materials Phosphorus, P2O5 73 Price per pound of P2O5 supplied by Superphosphate. Pound \$0.39 50 \$19.50 Price is not per pound of total product applied, no conversion is needed. \$15.83 Herbicide, Glyphosate 334 A broad-spectrum, non-selective systemic herbicide. Refer Acre \$15.83 1 to WIN-PST for product names and active ingredients. Includes materials and shipping only. 74 K2O supplied by Muriate Of Potash. Price is not per pound 100 \$28.00 Potassium, K2O Pound \$0.28 of total product applied, no conversion is needed. One Species, Warm Season, 2322 Native, warm season perennial grass. Includes material Acre \$65.98 1 \$65.98 Native Perennial Grass and shipping only. Mobilization 1139 Equipment with 70-150 HP or typical weights between Fach \$255.27 1 \$255.27 Mobilization, medium 14,000 and 30,000 pounds. equipment

Scenario: #8 - Introduced Species Filter Strip w/ Land Shaping

# **Scenario Description:**

A strip or area of herbaceous vegetation, introduced species, situated between cropland, grazing land or disturbed land and sensitive areas. Practice includes seedbed prep, land shaping and planting of approved species.

### **Before Situation:**

Annual cropland, grazing land, or disturbed land (including forestland) allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat and neighboring non-ag properties. Water Quality resource concerns are associated with this practice.

### **After Situation:**

The planned filter strip will be established and mainatined per the practice plan that will meet the criteria for the planned purpose(s). The vegetation will consist of introduced species. The filter strip will have adequate width to filter the planned pollutants. The practice includes seedbed preparation (including any shaping needed to ensure even entry of water into the strip), seeding, and operation and maintenance to maintain the vegetation and the function of the filter strip. Species selected shall be able to withstand partial burial by sediment and tolerant of herbicides used on contribution area while protecting environmentally-sensitive areas.

**Scenario Feature Measure:** Number of acres

Scenario Unit: Acre
Scenario Typical Size: 1

Scenario Cost: \$656.50 Scenario Cost/Unit: \$656.50

Cost Details (by category) Component Name	,. ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Equipment/Installation				(47 5)		
Dozer, 80 HP	929	Track mounted Dozer with horsepower range of 60 to 90. Equipment and power unit costs. Labor not included.	Hour	\$66.54	2	\$133.08
Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$20.01	1	\$20.01
Fertilizer, ground application, dry bulk	950	Dry bulk fertilizer application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.36	1	\$6.36
Chemical, ground application	948	Chemical application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$5.75	1	\$5.75
Labor						
General Labor	231	Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$24.74	1	\$24.74
Equipment Operators, Heavy	233	Includes: Cranes, Hydraulic Excavators >=50 HP, Dozers, Paving Machines, Rock Trenchers, Trenchers >=12", Dump Trucks, Ag Equipment >=150 HP, Scrapers, Water Wagons.	Hour	\$34.14	2	\$68.28
Materials	•					
Four Species Mix, Cool Season, Introduced Perennial (2 grasses, 2 legumes)	2317	Cool season grass and legume mix. Includes material and shipping only.	Acre	\$46.18	1	\$46.18
Nitrogen (N), Urea	71	Price per pound of N supplied by Urea. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.67	50	\$33.50
Phosphorus, P2O5	73	Price per pound of P2O5 supplied by Superphosphate. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.39	50	\$19.50
Potassium, K2O	74	K2O supplied by Muriate Of Potash. Price is not per pound of total product applied, no conversion is needed.	Pound	\$0.28	100	\$28.00
Herbicide, Glyphosate	334	A broad-spectrum, non-selective systemic herbicide. Refer to WIN-PST for product names and active ingredients. Includes materials and shipping only.	Acre	\$15.83	1	\$15.83

# Mobilization

Mobilization, medium	1139 Equipment with 70-150 HP or typical weights between	Each	\$255.27	1	\$255.27
equipment	14,000 and 30,000 pounds.				

Scenario: #9 - Filter Strip, Organic Introduced species: Forgone Income

# **Scenario Description:**

A strip or area of organic introduced herbaceous vegetation situated between cropland and sensitive areas. Practice includes seedbed prep and planting of organic introduced species. The area of the filter strip is taken out of production.

#### **Before Situation:**

Annual cropland on an organic farm allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat and neighboring non-ag properties. Water Quality resource concerns are associated with this practice.

#### **After Situation:**

The planned filter strip will be established and maintained per the practice plan that will meet the criteria for the planned purpose(s). The vegetation will consist of organic introduced species. The filter strip will have adequate width to filter the planned pollutants. The practice includes seedbed preparation, seeding, and operation and maintenance to maintain the vegetation and the function of the filter strip. Species selected shall be able to withstand partial burial by sediment while protecting environmentally-sensitive areas. The area of the filter strip is taken out of production.

Scenario Feature Measure: Number of acres

Scenario Unit: Acre
Scenario Typical Size: 1

Scenario Cost: \$483.39 Scenario Cost/Unit: \$483.39

Cost Details (by category	=			Price		
Component Name	ID	Component Description	Unit	(\$/unit)	Quantity	Cost
Equipment/Installation						
Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$20.01	1	\$20.01
Fertilizer, ground application, dry bulk	950	Dry bulk fertilizer application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.36	1	\$6.36
Foregone Income						
FI, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$313.51	1	\$313.51
Labor					•	•
General Labor	231	Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$24.74	1	\$24.74
Materials	1				•	
Nitrogen, Organic	266	ORGANIC Nitrogen	Pound	\$0.27	50	\$13.50
Certified Organic, Three Species Mix, Cool Season, Perennial Grasses and Legumes	2340	Certified organic cool season perennial grass and legume mix. Includes material and shipping only.	Acre	\$64.77	1	\$64.77
Phosphorus, Organic	267	ORGANIC Phosphorus	Pound	\$0.27	50	\$13.50
Potassium, Organic	268	ORGANIC Potassium	Pound	\$0.27	100	\$27.00

Scenario: #10 - Organic Introduced Species Filter Strip w/Land Shaping: Forgone Income

# **Scenario Description:**

A strip or area of organic introduced herbaceous vegetation situated between cropland and sensitive areas. Practice includes seedbed prep, land shaping and planting of organic introduced species. The area of the filter strip is taken out of production.

### **Before Situation:**

Annual cropland on an organic farm allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat and neighboring non-ag properties. Water Quality resource concerns are associated with this practice.

#### **After Situation:**

The planned filter strip will be established and maintained per the practice plan that will meet the criteria for the planned purpose(s). The vegetation will consist of organic introduced species. The filter strip will have adequate width to filter the planned pollutants. The practice includes seedbed preparation (including any shaping needed to ensure even entry of water into the strip), seeding, and operation and maintenance to maintain the vegetation and the function of the filter strip. Species selected shall be able to withstand partial burial by sediment while protecting environmentally-sensitive areas. The area of the filter strip is taken out of production.

**Scenario Feature Measure:** Number of acres

Scenario Unit: Acre
Scenario Typical Size: 1

Scenario Cost: \$921.43 Scenario Cost/Unit: \$921.43

Cost Details (by category)		Component Description	Unit	Price	O. contitu	Coot
Component Name  Equipment/Installation	עו	Component Description	Unit	(\$/unit)	Quantity	COSI
Dozer, 80 HP		Track mounted Dozer with horsepower range of 60 to 90. Equipment and power unit costs. Labor not included.	Hour	\$66.54	2	\$133.08
Seeding Operation, No Till/Grass Drill		No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$20.01	1	\$20.01
Fertilizer, ground application, dry bulk		Dry bulk fertilizer application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.36	1	\$6.36
Foregone Income				•		•
FI, Corn Dryland	1959	Dryland Corn is Primary Crop	Acre	\$313.51	1	\$313.51
Labor				•	•	•
Equipment Operators, Heavy		Includes: Cranes, Hydraulic Excavators >=50 HP, Dozers, Paving Machines, Rock Trenchers, Trenchers >=12", Dump Trucks, Ag Equipment >=150 HP, Scrapers, Water Wagons.	Hour	\$34.14	2	\$68.28
General Labor	231	Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$24.74	1	\$24.74
Materials				•		•
Nitrogen, Organic	266	ORGANIC Nitrogen	Pound	\$0.27	50	\$13.50
Potassium, Organic	268	ORGANIC Potassium	Pound	\$0.27	100	\$27.00
Four Species Mix, Cool Season, Introduced Perennial (2 grasses, 2 legumes)		Cool season grass and legume mix. Includes material and shipping only.	Acre	\$46.18	1	\$46.18
Phosphorus, Organic	267	ORGANIC Phosphorus	Pound	\$0.27	50	\$13.50
Mobilization						-
Mobilization, medium	1139	Equipment with 70-150 HP or typical weights between	Each	\$255.27	1	\$255.27

Scenario: #11 - Filter Strip, Organic Introduced species

# **Scenario Description:**

A strip or area of organic introduced herbaceous vegetation situated between cropland, grazing land or disturbed land and sensitive areas. Practice includes seedbed prep and planting of organic introduced species.

### **Before Situation:**

Annual cropland, grazing land or disturbed land (including forestland) on an organic farm allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat and neighboring nonag properties. Water Quality resource concerns are associated with this practice.

#### **After Situation:**

The planned filter strip will be established and maintained per the practice plan that will meet the criteria for the planned purpose(s). The vegetation will consist of organic introduced species. The filter strip will have adequate width to filter the planned pollutants. The practice includes seedbed preparation, seeding, and operation and maintenance to maintain the vegetation and the function of the filter strip. Species selected shall be able to withstand partial burial by sediment while protecting environmentally-sensitive areas.

Scenario Feature Measure: Number of acres

Scenario Unit: Acre
Scenario Typical Size: 1

Scenario Cost: \$169.88 Scenario Cost/Unit: \$169.88

<b>Cost Details (by category</b>	r):			Price		
Component Name	ID	Component Description	Unit	(\$/unit)	Quantity	Cost
Equipment/Installation						
Fertilizer, ground application, dry bulk		Dry bulk fertilizer application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.36	1	\$6.36
Seeding Operation, No Till/Grass Drill		No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$20.01	1	\$20.01
Labor						
General Labor	231	Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$24.74	1	\$24.74
Materials						
Nitrogen, Organic	266	ORGANIC Nitrogen	Pound	\$0.27	50	\$13.50
Phosphorus, Organic	267	ORGANIC Phosphorus	Pound	\$0.27	50	\$13.50
Potassium, Organic	268	ORGANIC Potassium	Pound	\$0.27	100	\$27.00
Certified Organic, Three Species Mix, Cool Season, Perennial Grasses and Legumes		Certified organic cool season perennial grass and legume mix. Includes material and shipping only.	Acre	\$64.77	1	\$64.77

Scenario: #12 - Organic Introduced Species Filter Strip w/Land Shaping

# **Scenario Description:**

A strip or area of organic introduced herbaceous vegetation, introduced species, situated between cropland, grazing land or disturbed land and sensitive areas. Practice includes seedbed prep, land shaping and planting of organic introduced species.

#### **Before Situation:**

Annual cropland, grazing land, or disturbed land (including forestland) on an organic farm allows for runoff of suspended solids, dissolved and/or associated contaminants into environmentally-sensitive areas such as wetlands, riparian zones, critical habitat and neighboring nonag properties. Water Quality resource concerns are associated with this practice.

#### **After Situation:**

The planned filter strip will be established and maintained per the practice plan that will meet the criteria for the planned purpose(s). The vegetation will consist of organic introduced species. The filter strip will have adequate width to filter the planned pollutants. The practice includes seedbed preparation (including any shaping needed to ensure even entry of water into the strip), seeding, and operation and maintenance to maintain the vegetation and the function of the filter strip. Species selected shall be able to withstand partial burial by sediment while protecting environmentally-sensitive areas.

Scenario Feature Measure: Number of acres

Scenario Unit: Acre
Scenario Typical Size: 1

Scenario Cost: \$626.51 Scenario Cost/Unit: \$626.51

Cost Details (by category	ost Details (by category):							
Component Name	ID	<b>Component Description</b>	Unit	(\$/unit)	Quantity	Cost		
Equipment/Installation								
Seeding Operation, No Till/Grass Drill	960	No Till drill or grass drill for seeding. Includes equipment, power unit and labor costs.	Acre	\$20.01	1	\$20.01		
Fertilizer, ground application, dry bulk	950	Dry bulk fertilizer application performed by ground equipment. Includes equipment, power unit and labor costs.	Acre	\$6.36	1	\$6.36		
Dozer, 80 HP	929	Track mounted Dozer with horsepower range of 60 to 90. Equipment and power unit costs. Labor not included.	Hour	\$66.54	2	\$133.08		
Labor								
Equipment Operators, Heavy	233	Includes: Cranes, Hydraulic Excavators >=50 HP, Dozers, Paving Machines, Rock Trenchers, Trenchers >=12", Dump Trucks, Ag Equipment >=150 HP, Scrapers, Water Wagons.	Hour	\$34.14	2	\$68.28		
General Labor	231	Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$24.74	1	\$24.74		
Materials								
Potassium, Organic	268	ORGANIC Potassium	Pound	\$0.27	100	\$27.00		
Phosphorus, Organic	267	ORGANIC Phosphorus	Pound	\$0.27	50	\$13.50		
Certified Organic, Three Species Mix, Cool Season, Perennial Grasses and Legumes	2340	Certified organic cool season perennial grass and legume mix. Includes material and shipping only.	Acre	\$64.77	1	\$64.77		
Nitrogen, Organic	266	ORGANIC Nitrogen	Pound	\$0.27	50	\$13.50		
Mobilization					,	-		
Mobilization, medium equipment	1139	Equipment with 70-150 HP or typical weights between 14,000 and 30,000 pounds.	Each	\$255.27	1	\$255.27		